

CLAIM SUMMARY DOCUMENT:

Claims 1-42 (Canceled)

Claim 43. (New) An isolated DNA comprising the cry1Bf coding sequence deposited at the BCCM-LMBP under accession number LMBP 3986, or comprising an artificial DNA sequence having a different codon usage compared to said coding sequence, but encoding the same protein.

Claim 44. (New) The DNA of claim 1, wherein the DNA comprises the nucleotide sequence of SEQ ID NO: 1.

Claim 45. (New) A chimeric gene comprising the DNA of claim 1, wherein the DNA is operably linked to a plant-expressible promoter.

Claim 46. (New) A plant cell transformed with the chimeric gene of claim 45.

Claim 47. (New) A plant or seed comprising the chimeric gene of claim 45 integrated in its cells.

Claim 48. (New) The plant or seed according to claim 47, wherein the chimeric gene is integrated in the nuclear or chloroplast DNA of the cells of the plant or seed.

Claim 49. (New) The plant or seed of claim 47 is selected from the group consisting of corn, cotton, rice, oilseed rape, Brassica, eggplant, soybean, potato, sunflower, tomato, sugarcane, tea, bean, tobacco, strawberry, clover, cucumber, watermelon, pepper, oat, barley, wheat, dahlia, gladiolus, chrysanthemum, sugarbeet, sorghum, alfalfa, and peanut.

Claim 50. (New) A micro-organism transformed with the DNA of claim 1.

Claim 51. (New) The microorganism of claim 50, wherein the microorganism is a member of a genus selected from the group consisting of *Agrobacterium*, *Escherichia*, and *Bacillus*.

Claim 52. (New) A process for killing insects comprising introducing the DNA of claim 1 into a host cell, and contacting insects with said host cells.

Claim 53. (New) A process for obtaining a plant with resistance to insects comprising transforming plant cells with the DNA of claim 1, and regenerating transformed plants which are resistant to insects.

Claim 54. (New) A process for obtaining plants with resistance to insects, wherein the process comprises transforming plant cells with the DNA of claim 1, and regenerating transformed plants which are resistant to insects.

Claim 55. (New) The process of claim 54 further comprising obtaining seeds wherein said seeds contain said DNA.

Claim 56. (New) A process for obtaining a plant with resistance to insects comprising transforming plant cells with the chimeric gene of claim 45, and regenerating transformed plants which are resistant to insects.

Claim 57. (New) The process of claim 56 further comprising obtaining seed wherein said seed contains said chimeric gene.

Claim 58. (New) An isolated DNA encoding a protein with a molecular weight of about 60 to about 80 kD, comprising the amino acid sequence of SEQ ID NO:2 from amino acid position 1 to amino acid position 640.

Claim 59. (New) The DNA of claim 58, wherein the DNA comprises an artificial DNA sequence having a different codon usage compared to the naturally occurring DNA sequence but encoding the same protein or its insecticidal fragment.

Claim 60. (New) A chimeric gene comprising the DNA of claim 58, wherein the DNA is operably linked to a plant-expressible promoter.

Claim 61. (New) A plant cell transformed with the chimeric gene of claim 60.

Claim 62. (New) A plant or seed comprising the chimeric gene of claim 60 integrated in its cells.

Claim 63. (New) A plant or seed comprising the chimeric gene of claim 60 integrated in the nuclear or chloroplast DNA of their cells.

Claim 64. (New) The plant or seed of claim 62, wherein the plant or seed is selected from the group consisting of corn, cotton, rice, oilseed rape, Brassica, eggplant, soybean, potato, sunflower, tomato, sugarcane, tea, bean, tobacco, strawberry, clover, cucumber, watermelon, pepper, oat, barley, wheat, dahlia, gladiolus, chrysanthemum, sugarbeet, sorghum, alfalfa, and peanut.

Claim 65. (New) A micro-organism transformed with the DNA of claim 58.

Claim 66. (New) The bacterium of claim 65, wherein the bacterium is a member of a genus selected from *Agrobacterium*, *Escherichia*, or *Bacillus*.

Claim 67. (New) A process for controlling insects, wherein the process comprises introducing the DNA of claim 58 into a host cell, and contacting insects with said host cell.

Claim 68. (New) A process for obtaining plants with resistance to insects, wherein the process comprises transforming plant cells with the DNA of claim 58, and regenerating transformed plants from said plant cells, wherein said transformed cells are resistant to insects.

Claim 69. (New) The process of claim 68 further comprising obtaining seeds from said transformed plants, wherein said seeds contain said DNA.

Claim 70. (New) A process for obtaining plants with resistance to insects, wherein the process comprises transforming plant cells with the chimeric gene of claim 60, and regenerating transformed plants from said plant cells, wherein said transformed plants are resistant to insects.

Claim 71. (New) The process of claim 70 further comprising obtaining seed from said transformed plants, wherein said seed contains said chimeric gene.

Claim 72. (New) A method for protecting a plant from *Sesamia nonagriodes*, wherein the method comprises transforming a plant with a DNA encoding an insecticidally active fragment of the protein of SEQ ID NO: 2, and growing the plant in a field, wherein the plant produces an insecticidal amount of the protein.

Claim 73. (New) A process for controlling *Sesamia nonagriodes*, comprising expressing a DNA encoding an insecticidally active fragment of the protein of SEQ ID NO: 2 in cells of a plant.